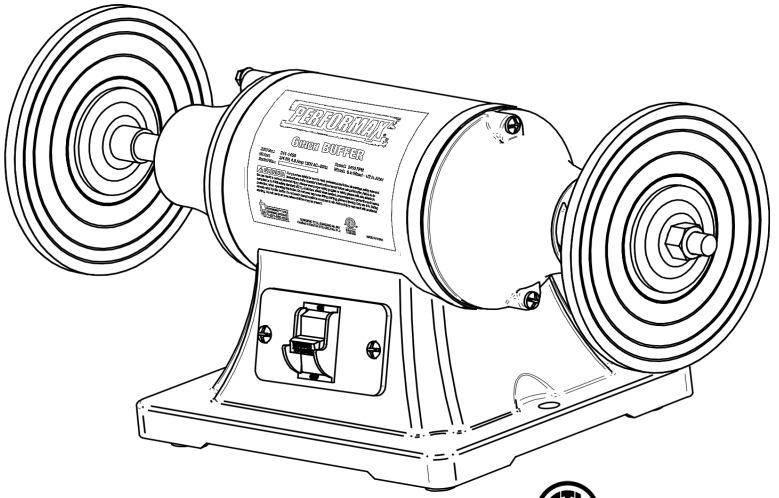
OPERATING MANUAL

6″ Buffer

241-1450



Intertek
3168328

PERFORMAX™ TOOLS
TECHNICAL SPECIALIST
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IMPORTANT:

⚠ Read through this operating manual carefully before using this tool. Pay close attention to all **Safety Instructions, Warnings,** and **Caution** sections**.** Use this tool properly, and only for its intended use.

⚠ Safety symbols in this Manual are used to call attention to possible dangers. The safety symbols and their explanations require the operator's full understanding. The safety warnings do not, by themselves, eliminate any danger, and they are not a substitute for proper accident-prevention measures.

⚠ This Safety Alert Symbol indicates caution, warning, or danger. Failure to obey a safety warning can result in serious injury to the operator or to others. To reduce the risk of injury, fire, or electric shock, always follow the safety precautions.

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SAFETY RULES

PROPOSITION 65 WARNING: Some dust created by power sanding, sawing, grinding, drilling and other construction activities contains chemicals known to the state of California to cause cancer, birth defects or other reproductive harm.

Some examples of these chemicals are:

- Lead from lead-based paints.
- Crystalline silica from bricks and cement and other masonry products.
- Arsenic and chromium from chemically-treated lumber.

Your risk from these exposures vary, depending on how often you do this type of work. To reduce your exposure to these chemicals: work in a well ventilated area and work with approved safety equipment. Always wear OSHA/NIOSH approved, properly fitting face mask or respirator when using such tools.

WARNING: For your own safety, read all of the instructions and precautions before operating tool.

CAUTION: Always follow proper operating procedures as defined in this manual even if you are familiar with use of this or similar tools. Remember that being careless for even a fraction of a second can result in severe personal injury.

BE PREPARED FOR JOB

- Wear proper apparel. Do not wear loose clothing, gloves, neckties, rings, bracelets or other jewelry which may get caught in moving parts of machine.
- Wear protective hair covering to contain long hair.
- Wear safety shoes with non-slip soles.
- Wear safety glasses complying with United States ANSI Z87.1. Everyday glasses have only impact resistant lenses. They are NOT safety glasses.
- Wear Face mask or dust mask if operation is dusty.
- Be alert and think clearly. Never operate power tools when tired, intoxicated or when taking medications that cause drowsiness.

PREPARE WORK AREA FOR JOB

- Keep work area clean. Cluttered work areas invite accidents.
- Do not use power tools in dangerous environments. Do not use power tools in damp or wet locations. Do not expose power tools to rain.
- Work area should be properly lighted.
- Proper electrical receptacle should be available for tool. Three prong plug should be plugged directly into properly grounded, three-prong receptacle.
- Extension cords should have a grounding prong and the three wires of the extension cord should be of the correct gauge.
- Keep visitors at a safe distance from work area.
- Keep children out of workplace. Make workshop childproof. Use padlocks, master switches or remove switch keys to prevent any unintentional use of power tools.

TOOL SHOULD BE MAINTAINED

- Always unplug tool prior to inspection.
- Consult manual for specific maintaining and adjusting procedures.
- Keep tool lubricated and clean for safest operation.
- Remove adjusting tools. Form habit of checking to see that adjusting tools are removed before switching machine on.
- Keep all parts in working order. Check to determine that the guard or other parts will operate properly and perform their intended function.
- Check for damaged parts. Check for alignment of moving parts, binding, breakage, mounting and any other condition that may affect a tool's operation.
- A guard or other part that is damaged should be properly repaired or replaced. Do not perform makeshift repairs. (Use parts list provided to order replacement parts.)

KNOW HOW TO USE TOOL

- Use right tool for job. Do not force tool or attachment to do a job for which it was not designed.
- Disconnect tool when changing buffing wheels.
- Avoid accidental start-up. Make sure that the tool is in the "off" position before plugging in.
- Do not force tool. It will work most efficiently at the rate for which it was designed.
- Keep hands away from moving parts and buffing surfaces.
- Never leave tool running unattended. Turn the power off and do not leave tool until it comes to a complete stop.
- Do not overreach. Keep proper footing and balance.
- Never stand on tool. Serious injury could occur if tool is tipped or if belt or disc are unintentionally contacted.
- Know your tool. Learn the tool's operation, application and specific limitations.

- Use recommended accessories. Use of improper accessories may cause risk of injury to persons.
- Do not overtighten wheel nut. Replace defective wheel immediately. Use only flanges supplied with the buffer.
- Handle the workpiece correctly.

CAUTION: Think safety! Safety is a combination of operator common sense and alertness at all times when tool is being used.

WARNING: Do not attempt to operate tool until it is completely assembled according to the instructions.

ASSEMBLY

CAUTION: Do not attempt assembly if parts are missing. Use this manual to order replacement parts.

Buffer comes completely assembled with hex nuts, wheel flanges and spacers (Key. Nos. 1, 2, and 3) packed separately. One spiral sewn wheel and one soft wheel are included.

IMPORTANT: Do not attempt assembly if parts are missing. Use this manual to order replacement parts.

INSTALL BUFFING WHEELS

To install buffing wheels on the buffer:

- Remove plastic protective sleeves from armature shaft
- Slide spacer (Key. No. 3) onto armature shaft. Spacers are not required when mounting several wheels to shaft.
- Slide inner wheel flange (Key. No. 2) onto armature shaft.
- Slide buffing wheel on to the armature shaft and butt it against the inner wheel flange.
- Slide the outer wheel flange (Key. No. 2) and butt the flat side of the flange against the buffing wheel.
- Tighten hex nut (Key. No. 3)on to the armature shaft. Make sure the buffing wheel is firmly held in place and the hex nut is snug against the outer wheel flange. Use additional spacers (not supplied) if required.
- Install buffing wheel on other side of buffer as mentioned above.

INSTALLATION

MOUNT BUFFER

Buffer must be mounted to a solid horizontal surface (hardware not provided). To mount buffer to metal pedestal:

- Align mounting holes with corresponding holes in pedestal
- Insert a ¼-20 x 1¼ " hex head bolt with flat washer through base of buffer.
- Place a ¼ " flat washer and ¼ "-20 hex nut from the bottom of pedestal onto the bolt.
- Tighten until base is flush with the pedestal.
- Using second nut on each bolt, jam tighten against the first to prevent loosening by vibration.

To mount buffer to wooden bench:

- Use ¼ x 1¼ " wood screws with flat washers beneath heads.
- Tighten screws until base is flush with bench top.

POWER SOURCE

WARNING: Do not connect buffer to the power source until all assembly steps have been completed.

The motor is designed for operation on the voltage and frequency specified. Normal loads will be handled safely on voltages not more than 10% above or below specified voltage. Running the unit on voltages which are not within range may cause overheating and motor burn-out. Heavy loads require that voltage at motor terminals be no less than the voltage specified on nameplate.

- Power supply to the motor is controlled by a single pole locking rocker switch. Remove the key to prevent unauthorized use.

GROUNDING INSTRUCTIONS

WARNING: Improper connection of equipment grounding conductor can result in the risk of electrical shock. Equipment should be grounded while in use to protect operator from electrical shock.

- Check with a qualified electrician if grounding instructions are not understood or if in doubt as to whether the tool is properly grounded.
- This tool is equipped with an approved 3-conductor cord rated at 150V and a 3-prong grounding type plug (Figure 1) for your protection against shock hazards.
- Grounding plug should be plugged directly into a properly installed and grounded 3-prong grounding-type receptacle, as shown (Figure 1).

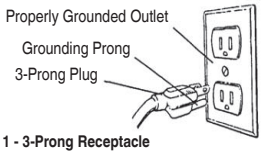


Figure 1 - 3-Prong Receptacle

- Do not remove or alter grounding prong in any manner. In the event of a malfunction or breakdown, grounding provides a path of least resistance for electrical shock.

WARNING: Do not permit fingers to touch the terminals of plug when installing or removing from outlet.

- Plug must be plugged into matching outlet that is properly installed and grounded in accordance with all local codes and ordinances. Do not modify plug provided. If it will not fit in outlet, have proper outlet installed by a qualified electrician.
- Inspect tool cords periodically, and if damaged, have repaired by an authorized service facility.
- Green (or green and yellow) conductor in cord is the grounding wire. If repair or replacement of the electric cord or plug is necessary, do not connect the green (or green and yellow) wire to a live terminal.
- Where a 2-prong wall receptacle is encountered, it must be replaced with a properly grounded 3-prong receptacle installed in accordance with National Electric Code and local codes and ordinances.

WARNING: This work should be performed by a qualified electrician.

A temporary 3-prong to 2-prong grounding adapter (see Figure 2) is available for connecting plugs to a two pole outlet if it is properly grounded.

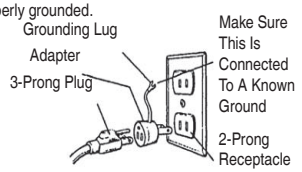


Figure 2 - 2-Prong Receptacle with Adapter

- Do not use a 3-prong to 2-prong grounding adapter unless permitted by local and national codes and ordinances.

(A 3-prong to 2-prong grounding adapter is not permitted in Canada.) Where permitted, the rigid green tab or terminal on the side of the adapter must be securely connected to a permanent electrical ground such as a properly grounded water pipe, a properly grounded outlet box or a properly grounded wire system.

- Many cover plate screws, water pipes and outlet boxes are not properly grounded. To ensure proper ground, grounding means must be tested by a qualified electrician.

EXTENSION CORDS

- The use of any extension cord will cause some drop in voltage and loss of power.
- Wires of the extension cord must be of sufficient size to carry the current and maintain adequate voltage.
- Use the table to determine the minimum wire size (A.W.G.) extension cord.
- Use only 3-wire extension cords having 3-prong grounding type plugs and 3-pole receptacles which accept the tool plug.
- If the extension cord is worn, cut, or damaged in any way, replace it immediately.

Extension Cord Length

Wire Size	A.W.G.
Up to 25 ft.	18
25 to 50 ft.	16

NOTE: Using extension cords over 50 ft. long is not recommended.

ELECTRICAL CONNECTIONS

WARNING: All electrical connections must be performed by a qualified electrician. Make sure tool is off and disconnected from power source while motor is mounted, connected, reconnected or anytime wiring is inspected.

SPECIFICATIONS

MODEL 241-1450
6" BUFFER

The buffer is assembled with motor and wiring installed as an integral part of the tool.

Horsepower	3/4
Voltage	120
Amperes	4.8
Hertz	60
Phase	Single
RPM	3450
Rotation (viewed from left side)	Clockwise
Weight	18 lbs

WHEELS SIZE

Diameter	6"
Bore	1/2"

OPERATION

DESCRIPTION

The 6" Buffer is equipped with totally enclosed 3/4HP motor and single-speed motor. Armature assembly is dynamically balanced for smooth operation. Motor housing is compact so long pieces of work can press against both wheels without touching the motor frame.

WARNING: Always wear safety glasses complying with United States ANSI Z87.1 before commencing power tool operation. Safety glasses are available through your Sears catalog.

- Load buffing compound, appropriate for your workpiece, onto the wheel.
- Carefully guide workpiece into wheel.
- Keep a steady, moderate pressure on the work piece and keep it moving at an even pace for smooth buffing.
- Pressing too hard overheats the motor and prematurely wears down the buffing wheels.
- The buffing wheel should rotate into object being polished.

MAINTENANCE

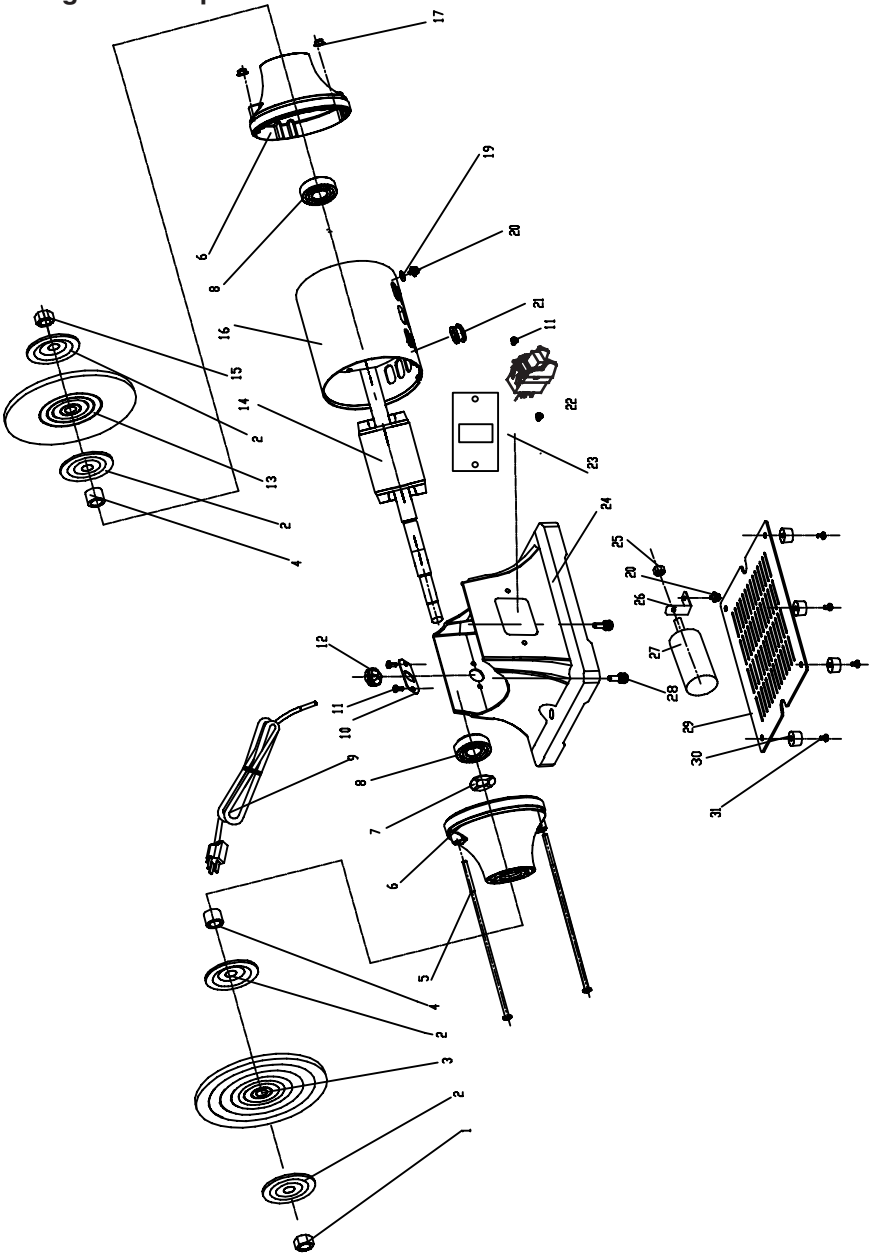
- Replacement wheels must have a minimum rated speed of 3450 RPM.
- Maximum wheel diameter for Model No. 241-1450 is 6″.
- Disconnect unit from power source before replacing buffing wheels or before performing any maintenance work.
- The threads on the right side of the buffer (facing unit) are right hand; threads on the left side are left hand. Hold the wheels firmly to loosen the hex nut.
- Make sure hex nuts are tight and snug against the outer wheel flange prior to restarting buffer.

TROUBLESHOOTING

SYMPTOM	POSSIBLE CAUSE(S)	CORRECTIVE ACTION
Buffer won't start	1. Blown line fuse or tripped circuit breaker	1. If fuse is blown, replace with fuse of proper size. If breaker tripped, reset it
	2. Low line voltage	2. Check power supply for voltage and correct as needed
	3. Defective switch	3. Replace switch
	4. Defective, blown capacitor	4. Replace capacitor
Excessive vibration	1. Improper mounting of buffing wheel on buffer	1. Remount
	2. Buffing wheels not balanced	2. Remount or replace wheels
Motor overheating	1. Excess pressure required to buffing	1. Replace wheel
	2. Buffing on side of wheel	2. Perform buffing only on face of wheel
	3. Motor not turning freely (without power)	3. Clean around wheels and shaft and/or replace bearings
Fuses are being blown or circuit breakers tripped	1. Overloading due to binding	1. Clean around wheels and shaft and/or replace bearings
	2. Defective plug	2. Replace plug
	3. Defective cord	3. Replace cord
	4. Defective switch	4. Replace switch
	5. Motor wired for different line voltage	5. Rewire motor as per wiring diagram
	6. Faulty internal wiring	6. Contact authorized Sears Service Center
Buffer will not operate in variable speed mode	1. Defective variable speed switch	1. Replace switch
	2. Defective sensor	2. Replace sensor
	3. Defective circuit board	3. Replace circuit board

Model 241-1450

Figure 3 - Replacement Parts Illustration for 6″ Buffer



REPLACEMENT PARTS LIST FOR BUFFER

KEY NO.	DESCRIPTION	QTY.
1	Hex Nut (Left) M12	1
2	Flange	4
3	Sewn Buffing Wheel	1
4	Spacer	2
5	Screw M5X200	4
6	End Cap	2
7	Wave Washer D34.5	1
8	Bearing 6202	2
9	Power Cord	1
10	Cord Fix Plate	1
11	Screw with Washer M5X8	4
12	Strain Relief	1
13	Soft Buffering Wheel	1
14	Rotor	1
15	Hex Nut (Right) M12	1
16	Stator	1
17	Flange Hex Nut M5	2
19	Lock Washer D4	1
20	Screw M4X8	2
21	Wire Bushing	1
22	Safety Switch with Key	1
23	Switch Plate	1
24	Base	1
25	Hex Nut M8	1
26	Capacitor Support	1
27	Capacitor	1
28	Screw with Washer M6X18	2
29	Base Plate	1
30	Rubber Foot	4
31	Screw with Washer	4

PERFORMAX

6″ BUFFER
WARRANTY

2-YEAR LIMITED WARRANTY:

This PERFORMAX® brand power tool carries a 2-Year Limited Warranty to the original purchaser. If, during normal use, this PERFORMAX® power tool breaks or fails due to a defect in material or workmanship within two (2) years from the date of original purchase, simply bring this tool with the original sales receipt back to your nearest MENARDS® retail store. At its discretion, PERFORMAX® agrees to have the tool or any defective part(s) repaired or replaced with the same or similar PERFORMAX® product or part free of charge, within the stated warranty period, when returned by the original purchaser with original sales receipt. Notwithstanding the foregoing, this limited warranty does not cover any damage that has resulted from abuse or misuse of the Merchandise. This warranty: (1) excludes expendable parts including but not limited to blades, brushes, belts, bits, light bulbs, and/or batteries; (2) shall be void if this tool is used for commercial and/or rental purposes; and (3) does not cover any losses, injuries to persons/property or costs. This warranty does give you specific legal rights and you may have other rights, which vary from state to state. Be careful, tools are dangerous if improperly used or maintained. Seller's employees are not qualified to advise you on the use of this Merchandise. Any oral representation(s) made will not be binding on seller or its employees. The rights under this limited warranty are to the original purchaser of the Merchandise and may not be transferred to any subsequent owner. This limited warranty is in lieu of all warranties, expressed or implied including warranties or merchantability and fitness for a particular purpose. Seller shall not be liable for any special, incidental, or consequential damages. The sole exclusive remedy against the seller will be for the replacement of any defects as provided herein, as long as the seller is willing or able to replace this product or is willing to refund the purchase price as provided above. For insurance purposes, seller is not allowed to demonstrate any of these power tools for you.

For questions / comments, technical assistance or repair parts –
Please Call Toll Free at: **1-877-866-8392 (M-F 8am - 5pm)**

SAVE YOUR RECEIPTS
THIS WARRANTY IS VOID WITHOUT THEM